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CENTRAL INTELLIGENCE AGENCY

REPORT NO.

INFORMATION REPORT

CD NO.

COUNTRY East Germany

SUBJECT Radar Training of the 1st Volkspolizei
Air Division 25X1C

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SUPPLEMENT TO
REPORT NO.

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1. In early February 1953, the radar training of the VP Air Division was conducted with the aid of a radar set, the type of which could not be determined, which had been furnished by the Russians.
2. The effectiveness of the radar set is dependent on the number, type, altitude and distance of the aircraft, as well as to the position of aircraft and radar station. The following data were given:

Altitude of Aircraft

Range of Radar

2,000 meters
4,000 meters
6,000 meters
8,000 meters

65 kilometers
100 kilometers
120 kilometers
150 kilometers

3. The area of the radar set has to be cleared from all obstacles which might interfere with the relays (radiation) of the waves, at a radius of 500 to 600 meters.
4. The average error in measurement at an azimuth angle of 2 degrees amounts to 700 meters. Taking bearings to altitudes below 4,000 meters the error in measurement is \pm 300 meters, and to altitudes between 4,000 and 8,000 meters \pm 500 meters.
5. Technical data:

a. Transmitter.

Operating frequency
Impulse frequency
Impulse period
Average cathode output
Feeding capacity

72.8 to 73.4 megacycles
50 impulses per second
8-to 10 μ /second
40 kilowatts
5 kilowatts

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b. Receiver.

Frequency range	110 to 160 kilocycles
first intermediate frequency	5.95 to 6.05 megacycles
second intermediate frequency	1.65 to 1.75 megacycles

c. Power supply.

Alternating current	50 cycles, 220 volts
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6. Operation. During summer months, four hours are required to erect the radar set, and during the winter months, six hours are required for the procedure. The set is ready for operation 3 to 5 minutes after it has been turned on. The starting time of the generator is three minutes in summer and 5 to 8 minutes in winter. Fuel consumption of the generator: 335 grams gasoline and 17 grams oil per hp per hour. After six hours of continuous operation, a second generator has to be turned on.¹

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1. [REDACTED] Comment. It is believed that the data given refer to the approximate figures of the Pumbo or SCR-602 radar sets. The average error in measurement is probably too high, while the frequency range of the receiver is believed to be too small. The training was performed in connection with early warning stations.

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